RM-95

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SPECIFICATIONS

Dimensions
Approx. 150 × 18 × 55 mm (w/h/d)
(6 × 3/4 × 2 inches)
not including clip
Weight Approx. 175 g (6 oz) including cable
Cable length
Approx. 5 m (16 feet 4 7/8 inches)

Design and specifications are subject to change without notice.

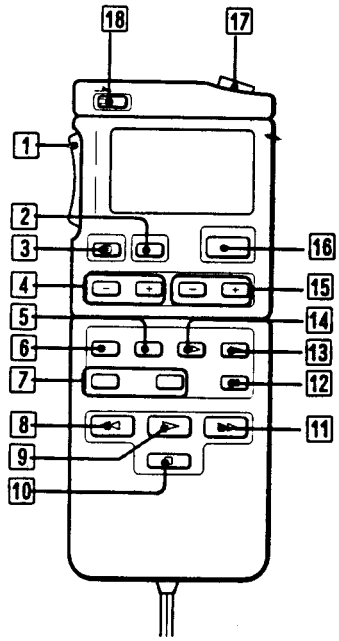
MICROFILM

REMOTE COMMANDER

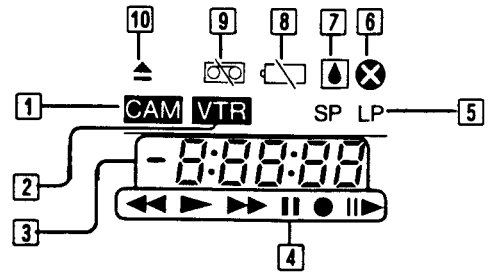
SONY®

SECTION 1
GENERAL

A



B



Function of Controls A

These buttons function when the position of the power switch on the video camera recorder is set to:
CAMERA: 1 - 8, 15 - 18
VTR(PLAYER): 5 - 14, 16, 18

1 **ZOOM button**
Press for smooth power zooming.
TELE: For telephoto position
WIDE: For wide-angle position

2 **FOCUS button** (When connected to CCD-V11 or CCD-V88/V88E only)
Press for auto focusing. For manual focusing, see 15.)

3 **REC (recording) REVIEW button**
When the recorder is set in the camera recording pause mode, press to play back the last few seconds of the recording on the viewfinder screen.

4 **EDIT SEARCH button**
Press to search for the desired point when the recorder is set in the camera recording pause mode. The picture will appear on the viewfinder screen.
+: When pressed continuously, a playback picture will appear.
−: When pressed continuously, the picture will be played back in reverse.
When pressed and immediately released, it will function the same way as the REC REVIEW button.

5 **DATA SCREEN button** (When connected to CCD-V11 or CCD-V88/V88E only)
Press to display data on the TV screen.

6 **COUNTER RESET button**

7 **● REC (record) buttons**
Press both buttons simultaneously to start recording when the POWER switch of the recorder is set to VTR.

8 **◀◀ REW (rewind) button**
Press to rewind the tape. Keeping this button pressed during playback enables you to see a high-speed playback in reverse.

9 **▶ PLAY (playback) button**

10 **■ STOP button**

11 **▶▶ FF (fast forward) button**
Press to advance the tape. Keeping this button pressed during playback enables you to see a high-speed playback.

12 **II PAUSE button**
Press to stop the tape for a moment during recording or playback.

13 **I▶ SLOW button**
Press to playback picture at 1/5 normal speed.

14 **II▶ FRAME button**
Press during playback when viewing still pictures frame-by-frame. Press again to go to the next frame.

15 **Manual focus buttons** (When connected to CCD-V11 or CCD-V88/V88E only)
Use for manual focusing. Before adjusting, press the FOCUS button and make the ■ mark appear in the viewfinder of the camera.
: to focus on near objects
: to focus on distant objects

16 **POWER button**
Press to turn on the recorder. (Set the POWER switch of the recorder beforehand to CAMERA for recording, or VTR (PLAYER) for playback.)
To turn the power off, press the button again.

17 **START/STOP button**
Press to start or stop the camera recorder when the recorder is set in the camera recording pause mode.

18 **HOLD switch**
When the Remote Commander is not in use, slide this switch in the direction of the arrow. The buttons of the Commander will not be operable even if they are pressed.

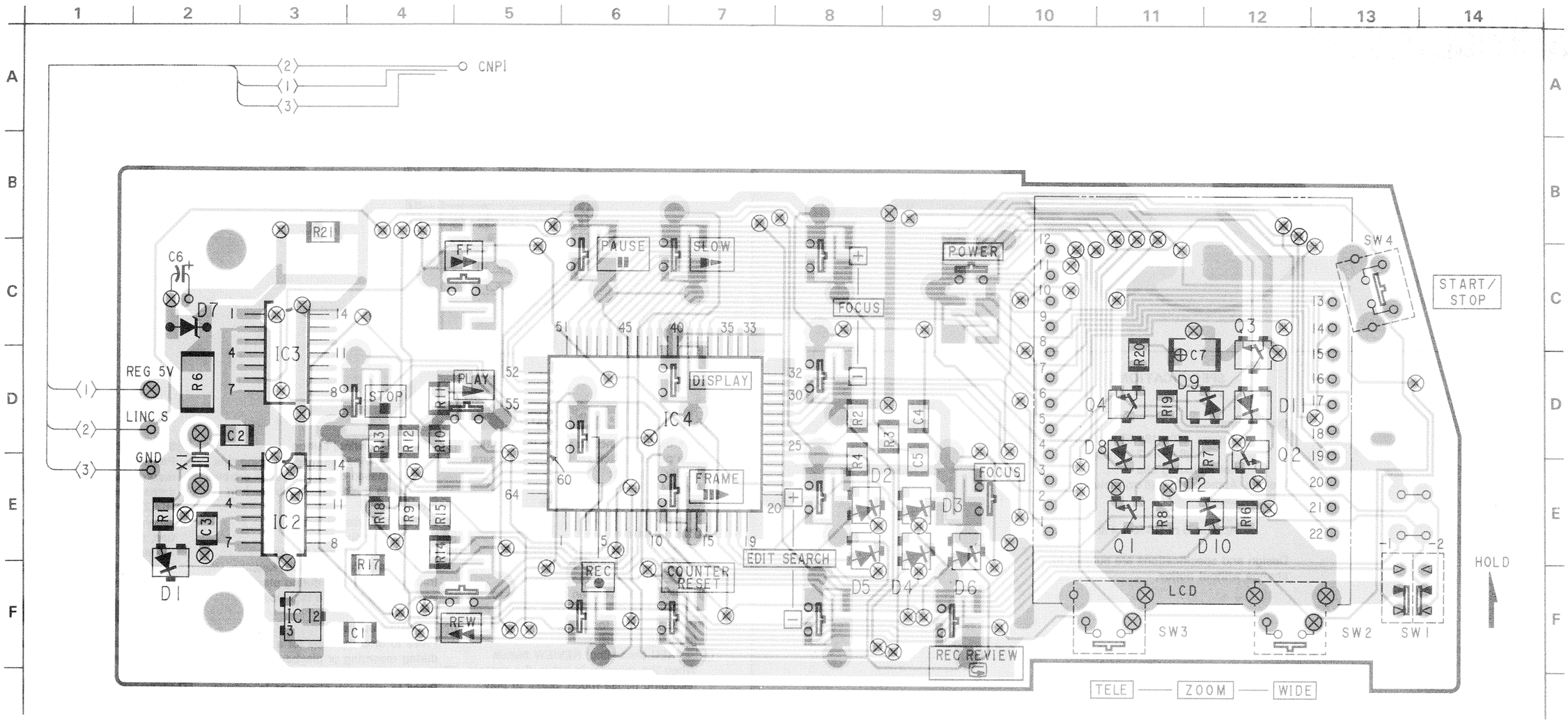
Display window B

This displays the condition of the video camera recorder.

1 Lights up when camera section is operable.
2 Lights up when VCR section is operable.
3 Tape counter
4 Tape operation mode indication
◀◀ (rewind)/▶ (playback)/▶▶ (fast forward)/II (pause)/● (record)/ II▶ (frame-by-frame) or I▶ (slow)
5 Tape speed indicator
6 Blinks when heads are contaminated.
7 Blinks when there is condensation inside the unit.
8 Blinks when the battery is exhausted.
9 Lights up when no cassette is inserted.
10 Blinks when there is condensation on the tape or the tape comes to its end during camera recording.

SECTION 2
DIAGRAMS

2-1. PRINTED WIRING BOARDS

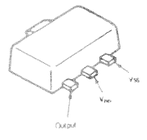


Note:

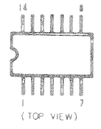
- ○— : indicates a lead wire mounted on the component side.
- ⊗ : Through hole.
- : soldering side.
- : component side.
- : Carbon pattern.

SEMICONDUCTOR LEAD LAYOUTS

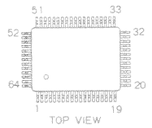
S-8054ALB



TC4024BF
UPD4069UBG

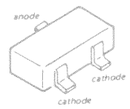


UPD7503G-A71-12

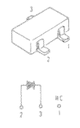


2SC1623
DTC144WU

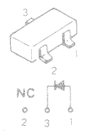
DAP202



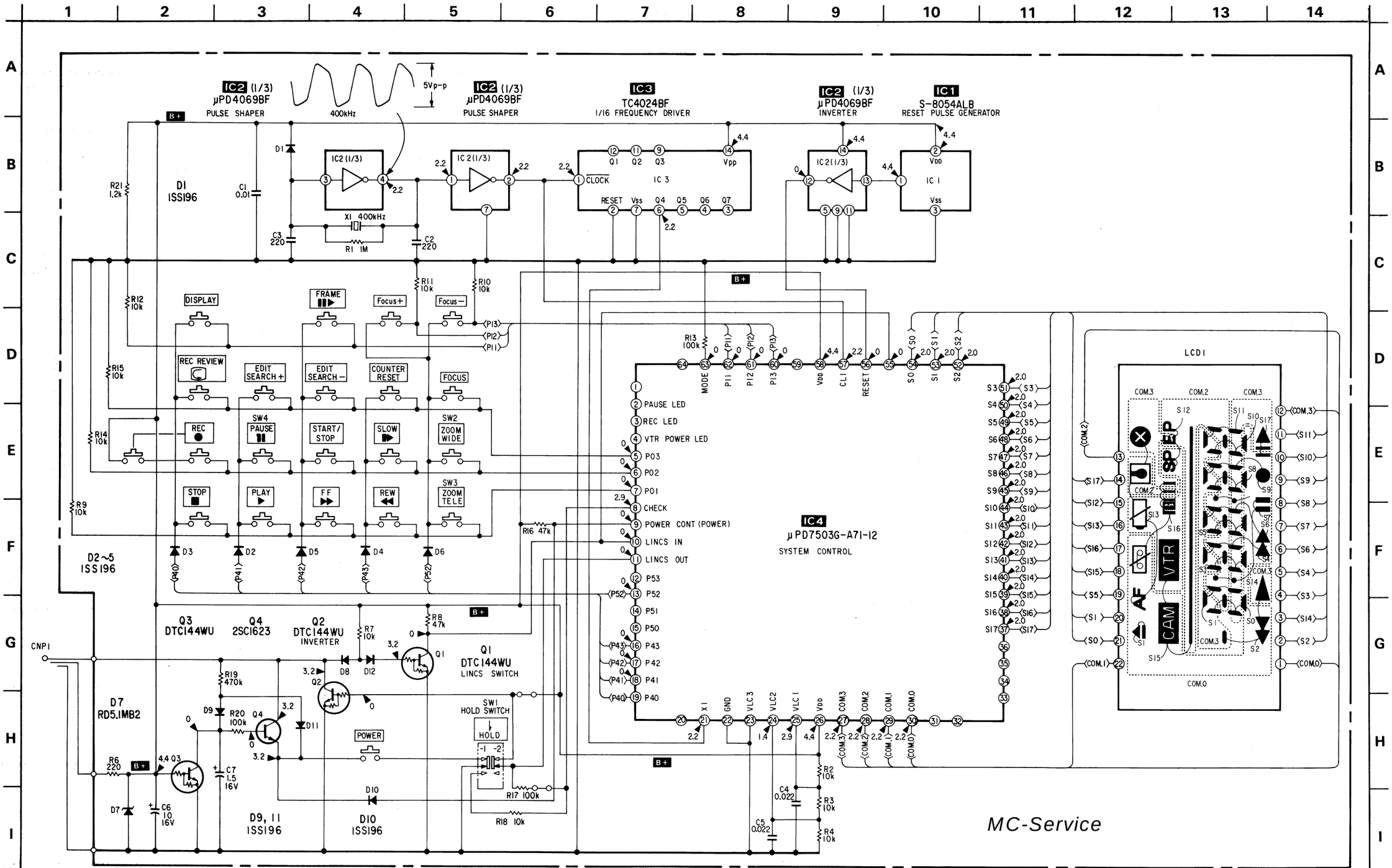
RD5.1MB2



1SS196



MC-Service



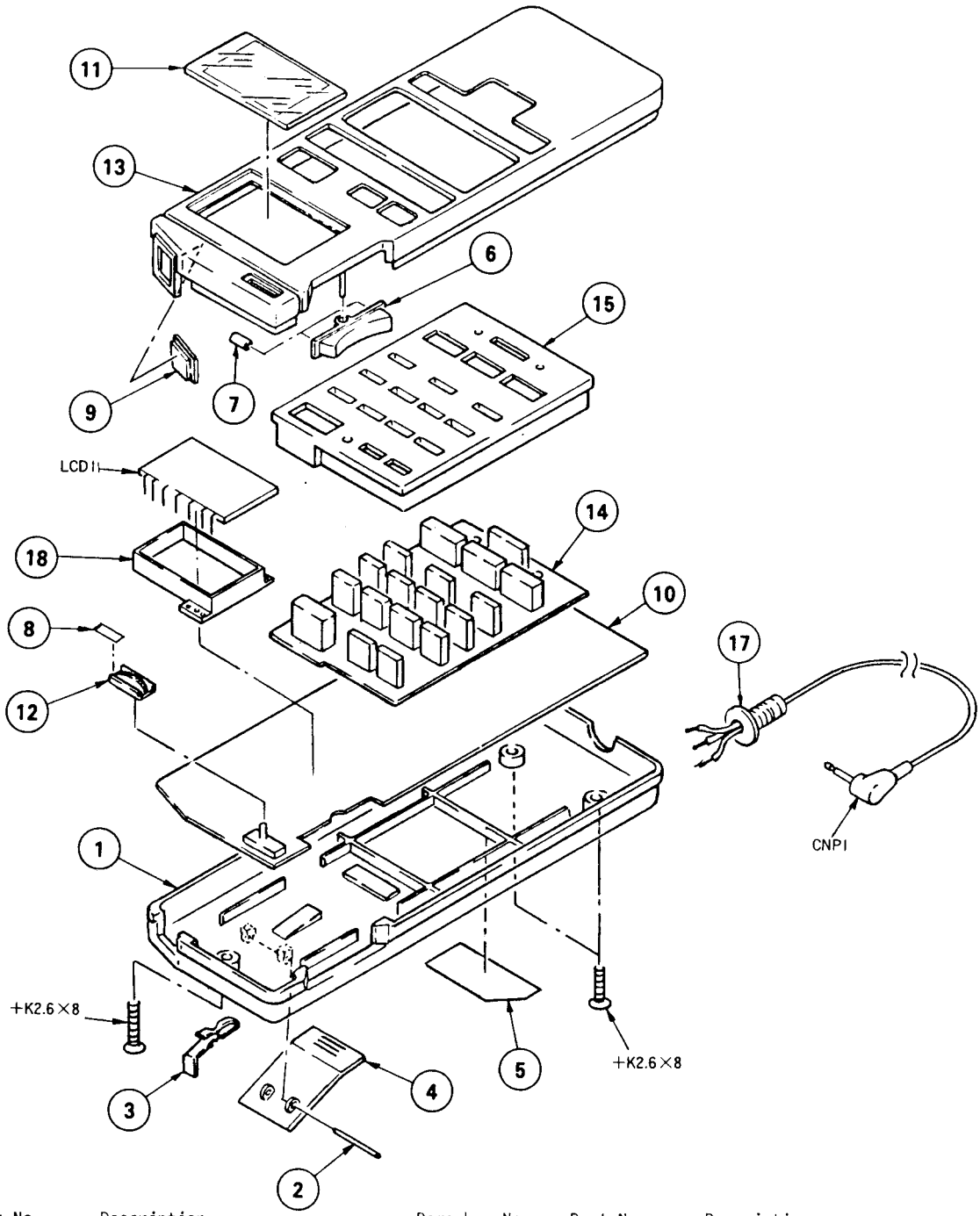
Note:

- Caution when replacing chip parts.
  New parts must be attached after removal of chip.
  Be careful not to heat the minus side of tantalum capacitor, because it is damaged by the heat.
- All resistors are in ohms, 1/16W unless otherwise noted.
  kΩ: 1000Ω, MΩ: 1000kΩ.
- All capacitors are in μF unless otherwise noted. pF: μμF.
  50V or less are not indicated except for electrolytics and tantalums.
- ☐ : panel designation.
- B+ : B+ Line

SECTION 3
EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.



No.	Part No.	Description	Remark
1	*2-394-183-01	COVER, LOWER	
2	2-199-003-00	SHAFT, CLIP	
3	2-199-007-00	SPRING, CLIP	
4	2-389-327-01	CLIP	
5	*2-357-120-01	LABEL, MODEL NUMBER	
6	2-389-314-01	BUTTON, ZOOM	
7	9-911-839-99	CUSHION	
8	*2-389-364-01	PLATE, COLOR	
9	2-389-365-01	KEY TOP (B)	
10	*A-6766-308-A	RM-CA BOARD, COMPLETE	
11	*2-389-368-01	COVER, LCD	
12	2-389-369-01	KNOB	
13	2-394-184-01	COVER, UPPER	
14	2-394-182-01	RUBBER, SWITCH	
15	2-394-181-01	RETAINER, RUBBER	
17	2-357-251-01	BUSHING	
18	2-394-180-01	SPACER, LCD	

RM-CA

SECTION 4
ELECTRICAL PARTS LIST

NOTE:

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- RESISTORS
  All resistors are in ohms
  METAL: Metal-film resistor
  METAL OXIDE: Metal Oxide-film resistor
  F: nonflammable
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some difference frome the original one.
- SEMICONDUCTORS
  In each case, U: μ, for example:
  UA....: μA...., UPA....: μPA....,
  UPB....: μPB...., UPC....: μPC....,
  UPD....: μPD....
- CAPACITORS
  MF: μF, PF: μμF
- COILS
  MMH: mH, UH: μH

Ref.No	Part No.	Description			Remark
	*A-6766-308-A	RM-CA BOARD, COMPLETE **********			
	2-357-251-01	BUSHING			
	2-394-180-01	SPACER, LCD			
		CAPACITOR			
C001	1-163-021-00	CERAMIC CHIP 0.01MF	10%	50V	
C002	1-163-125-00	CERAMIC CHIP 220PF	10%	50V	
C003	1-163-125-00	CERAMIC CHIP 220PF	10%	50V	
C004	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C005	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
C006	1-126-157-11	ELECT 10MF	20%	16V	
C007	1-164-161-11	CERAMIC CHIP 0.0022MF	10%	50V	
		DIODE			
D001	8-719-801-41	DIODE 1SS196			
D002	8-719-801-41	DIODE 1SS196			
D003	8-719-801-41	DIODE 1SS196			
D004	8-719-801-41	DIODE 1SS196			
D005	8-719-801-41	DIODE 1SS196			
D006	8-719-801-41	DIODE 1SS196			
D007	8-719-105-82	RD5.1MB2			
D008	8-719-914-44	DAP202			
D009	8-719-801-41	DIODE 1SS196			
D010	8-719-801-41	DIODE 1SS196			
D011	8-719-801-41	DIODE 1SS196			
		IC			
IC001	8-759-913-41	IC S-8054ALB			
IC002	8-759-106-26	UPD4069UBG			
IC003	8-759-204-20	TC4024BF			
IC004	8-759-142-56	IC UPD7503G-A71-12			
		LCD			
LCD1	1-808-617-11	LCD. DISPLAY			
		TRANSISTOR			
Q001	8-729-905-15	DTC144WU			
Q002	8-729-905-15	DTC144WU			
Q003	8-729-905-15	DTC144WU			
Q004	8-729-100-66	2SC1623			
		RESISTOR			
R001	1-216-857-11	METAL GLAZE 1M	5%	1/16W	
R002	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R003	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R004	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R006	1-216-813-11	METAL GLAZE 220	5%	1/16W	
R007	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R008	1-216-841-11	METAL GLAZE 47K	5%	1/16W	
R009	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R010	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R011	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R012	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R013	1-216-845-11	METAL GLAZE 100K	5%	1/16W	
R014	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R015	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R016	1-216-841-11	METAL GLAZE 47K	5%	1/16W	
R017	1-216-845-11	METAL GLAZE 100K	5%	1/16W	
R018	1-216-833-11	METAL GLAZE 10K	5%	1/16W	
R019	1-216-853-11	METAL GLAZE 470K	5%	1/16W	
R020	1-216-845-11	METAL GLAZE 100K	5%	1/16W	
R021	1-216-822-11	METAL GLAZE 1.2K	5%	1/16W	
		SWITCH			
SW001	1-553-755-00	SWITCH, SLIDE (HOLD SW)			
SW002	1-553-997-00	SWITCH, KEY BOARD (ZOOM WIDE)			
SW003	1-553-997-00	SWICTH, KEY BOARD (ZOOM TELE)			
SW004	1-553-997-00	SWICTH, KEY BOARD (START/STOP)			
		CRYSTAL			
X001	1-527-532-00	OSCILLATOR, CERAMIC (400KHz)			
		**********			
		MISCELLANEOUS **********			
CNP1	1-574-052-21	CORD, CONNECTION			
		**********			
		ACCESSORI *********			
	3-786-496-11	MANUAL, INSTRUCTION			
		**********			
		HARDWARE LIST **********			
		SCREW			
	7-685-234-19	SCREW +KTP 2.6X8 TYPE2 SLIT			
		**********			

MC-Service

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Personal Video Group

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